

## **STIC Biotechnology Systems Branch**

### **RAW SEQUENCE LISTING** **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/560,260  
Source: FWP  
Date Processed by STIC: 12/20/05

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.2.2 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):  
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05



IFWP

## RAW SEQUENCE LISTING

DATE: 12/20/2005

PATENT APPLICATION: US/10/560,260

TIME: 10:20:14

Input Set : A:\01 10328.204-WO sequence listing.ST25.txt

Output Set: N:\CRF4\12202005\J560260.raw

3 <110> APPLICANT: Segura, Dorotea  
 4 Mygind, Per  
 5 Hoegenhaug, Hans-Henrik  
 6 Hoegenhaug, Hans-Henrik  
 7 Tossi, Alessandro  
 9 <120> TITLE OF INVENTION: Antimicrobial Peptides  
 11 <130> FILE REFERENCE: 10328.204-US  
 C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/560,260  
 C--> 13 <141> CURRENT FILING DATE: 2005-12-09  
 13 <160> NUMBER OF SEQ ID NOS: 75  
 15 <170> SOFTWARE: PatentIn version 3.3  
 17 <210> SEQ ID NO: 1  
 18 <211> LENGTH: 29  
 19 <212> TYPE: PRT  
 20 <213> ORGANISM: Artificial  
 22 <220> FEATURE:  
 23 <223> OTHER INFORMATION: Synthetic antimicrobial peptide  
 26 <220> FEATURE:  
 27 <221> NAME/KEY: MISC\_FEATURE  
 28 <222> LOCATION: (2)..(2)  
 29 <223> OTHER INFORMATION: Xaa = leucine or arginine  
 31 <220> FEATURE:  
 32 <221> NAME/KEY: MISC\_FEATURE  
 33 <222> LOCATION: (3)..(3)  
 34 <223> OTHER INFORMATION: Xaa = leucine, isoleucine, valine or phenylalanine  
 36 <220> FEATURE:  
 37 <221> NAME/KEY: MISC\_FEATURE  
 38 <222> LOCATION: (4)..(4)  
 39 <223> OTHER INFORMATION: Xaa = arginine or lysine  
 41 <220> FEATURE:  
 42 <221> NAME/KEY: MISC\_FEATURE  
 43 <222> LOCATION: (6)..(6)  
 44 <223> OTHER INFORMATION: Xaa = leucine, isoleucine, valine or phenylalanine  
 46 <220> FEATURE:  
 47 <221> NAME/KEY: MISC\_FEATURE  
 48 <222> LOCATION: (7)..(7)  
 49 <223> OTHER INFORMATION: Xaa = arginine, tryptophan or glycine  
 51 <220> FEATURE:  
 52 <221> NAME/KEY: MISC\_FEATURE  
 53 <222> LOCATION: (8)..(8)  
 54 <223> OTHER INFORMATION: Xaa = lysine, arginine, glycine, methionine,  
 asparagine or  
 55 glutamic acid  
 57 <220> FEATURE:

Does Not Comply  
Corrected Diskette Needed

pp1-3.6

tryptophan

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TIME: 10:20:14

Input Set : A:\01 10328.204-WO sequence listing.ST25.txt

Output Set: N:\CRF4\12202005\J560260.raw

58 <221> NAME/KEY: MISC\_FEATURE  
 59 <222> LOCATION: (11)..(11)  
 60 <223> OTHER INFORMATION: Xaa = glycine, lysine, arginine or glutamic acid  
 62 <220> FEATURE:  
 63 <221> NAME/KEY: MISC\_FEATURE  
 64 <222> LOCATION: (12)..(12)  
 65 <223> OTHER INFORMATION: Xaa = lysine, arginine, glycine or glutamic acid  
 67 <220> FEATURE:  
 68 <221> NAME/KEY: MISC\_FEATURE  
 69 <222> LOCATION: (14)..(14)  
 70 <223> OTHER INFORMATION: Xaa = leucine or phenylalanine  
 72 <220> FEATURE:  
 73 <221> NAME/KEY: MISC\_FEATURE *invalid*  
 74 <222> LOCATION: (15)..(15)  
 75 <223> OTHER INFORMATION: Xaa = *Do you mean "glycine" or "lysine"?*  
 77 <220> FEATURE:  
 78 <221> NAME/KEY: MISC\_FEATURE  
 79 <222> LOCATION: (17)..(17)  
 80 <223> OTHER INFORMATION: Xaa = leucine, isoleucine, phenylalanine, cysteine  
 or tyrosine  
 82 <220> FEATURE:  
 83 <221> NAME/KEY: MISC\_FEATURE  
 84 <222> LOCATION: (18)..(18)  
 85 <223> OTHER INFORMATION: Xaa = glycine, alanine or threonine  
 87 <220> FEATURE:  
 88 <221> NAME/KEY: MISC\_FEATURE  
 89 <222> LOCATION: (19)..(19)  
 90 <223> OTHER INFORMATION: Xaa = glutamine, arginine, leucine or proline  
 92 <220> FEATURE:  
 93 <221> NAME/KEY: MISC\_FEATURE  
 94 <222> LOCATION: (20)..(20)  
 95 <223> OTHER INFORMATION: Xaa = lysine, leucine, isoleucine, methionine or  
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 97 <220> FEATURE:  
 98 <221> NAME/KEY: MISC\_FEATURE  
 99 <222> LOCATION: (23)..(23)  
 100 <223> OTHER INFORMATION: Xaa = proline, alanine, histidine, asparagine or  
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 102 <220> FEATURE:  
 103 <221> NAME/KEY: MISC\_FEATURE  
 104 <222> LOCATION: (24)..(24)  
 105 <223> OTHER INFORMATION: Xaa = isoleucine or leucine  
 107 <220> FEATURE:  
 108 <221> NAME/KEY: MISC\_FEATURE  
 109 <222> LOCATION: (25)..(25)  
 110 <223> OTHER INFORMATION: Xaa = arginine, histidine, glutamine or proline  
 112 <220> FEATURE:  
 113 <221> NAME/KEY: MISC\_FEATURE  
 114 <222> LOCATION: (26)..(26)  
 115 <223> OTHER INFORMATION: Xaa = isoleucine or lysine  
 117 <400> SEQUENCE: 1  
 W--> 119 Gly Xaa Xaa Xaa Arg Xaa Xaa Xaa Lys Ile Xaa Xaa Lys Xaa Xaa Lys

## RAW SEQUENCE LISTING

DATE: 12/20/2005

PATENT APPLICATION: US/10/560,260

TIME: 10:20:14

Input Set : A:\01 10328.204-WO sequence listing.ST25.txt

Output Set: N:\CRF4\12202005\J560260.raw

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120 1          5          10          15
W--> 123 Xaa Xaa Xaa Xaa Ile Lys Xaa Xaa Xaa Xaa Leu Val Pro
124          20          25
127 <210> SEQ ID NO: 2
128 <211> LENGTH: 29
129 <212> TYPE: PRT
130 <213> ORGANISM: Artificial
132 <220> FEATURE:
133 <223> OTHER INFORMATION: Synthetic antimicrobial peptide
136 <220> FEATURE:
137 <221> NAME/KEY: MISC_FEATURE
138 <222> LOCATION: (2)..(2)
139 <223> OTHER INFORMATION: Xaa = leucine or arginine
141 <220> FEATURE:
142 <221> NAME/KEY: MISC_FEATURE
143 <222> LOCATION: (3)..(3)
144 <223> OTHER INFORMATION: Xaa = leucine, isoleucine, valine or
phenylalanine
146 <220> FEATURE:
147 <221> NAME/KEY: MISC_FEATURE
148 <222> LOCATION: (4)..(4)
149 <223> OTHER INFORMATION: Xaa = arginine or lysine
151 <220> FEATURE:
152 <221> NAME/KEY: MISC_FEATURE
153 <222> LOCATION: (6)..(6)
154 <223> OTHER INFORMATION: Xaa = leucine, isoleucine, valine or
phenylalanine
156 <220> FEATURE:
157 <221> NAME/KEY: MISC_FEATURE
158 <222> LOCATION: (7)..(7)
159 <223> OTHER INFORMATION: Xaa = arginine, tryptophan or glycine
161 <220> FEATURE:
162 <221> NAME/KEY: MISC_FEATURE
163 <222> LOCATION: (8)..(8)
164 <223> OTHER INFORMATION: Xaa = lysine, arginine, glycine, methionine,
asparagine or
165      glutamic acid
167 <220> FEATURE:
168 <221> NAME/KEY: MISC_FEATURE
169 <222> LOCATION: (11)..(11)
170 <223> OTHER INFORMATION: Xaa = glycine, lysine, arginine or glutamic acid
172 <220> FEATURE:
173 <221> NAME/KEY: MISC_FEATURE
174 <222> LOCATION: (12)..(12)
175 <223> OTHER INFORMATION: Xaa = lysine, arginine, glycine or glutamic acid
177 <220> FEATURE:
178 <221> NAME/KEY: MISC_FEATURE
179 <222> LOCATION: (14)..(14)
180 <223> OTHER INFORMATION: Xaa = leucine or phenylalanine
182 <220> FEATURE:
183 <221> NAME/KEY: MISC_FEATURE
184 <222> LOCATION: (17)..(17)

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/560,260

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TIME: 10:20:14

Input Set : A:\01 10328.204-WO sequence listing.ST25.txt

Output Set: N:\CRF4\12202005\J560260.raw

185 <223> OTHER INFORMATION: Xaa = isoleucine, phenylalanine, cysteine or tyrosine

187 <220> FEATURE:

188 <221> NAME/KEY: MISC\_FEATURE

189 <222> LOCATION: (19)..(19)

190 <223> OTHER INFORMATION: Xaa = glutamine, leucine or proline

192 <220> FEATURE:

193 <221> NAME/KEY: MISC\_FEATURE

194 <222> LOCATION: (20)..(20)

195 <223> OTHER INFORMATION: Xaa = lysine, leucine, isoleucine, methionine or valine

197 <220> FEATURE:

198 <221> NAME/KEY: MISC\_FEATURE

199 <222> LOCATION: (23)..(23)

200 <223> OTHER INFORMATION: Xaa = proline, alanine, histidine, asparagine or aspartic acid

202 <220> FEATURE:

203 <221> NAME/KEY: MISC\_FEATURE

204 <222> LOCATION: (24)..(24)

205 <223> OTHER INFORMATION: Xaa = isoleucine or leucine

207 <220> FEATURE:

208 <221> NAME/KEY: MISC\_FEATURE

209 <222> LOCATION: (25)..(25)

210 <223> OTHER INFORMATION: Xaa = arginine, histidine, glutamine or proline

212 <220> FEATURE:

213 <221> NAME/KEY: MISC\_FEATURE

214 <222> LOCATION: (26)..(26)

215 <223> OTHER INFORMATION: Xaa = isoleucine or lysine

217 <400> SEQUENCE: 2

W--> 219 Gly Xaa Xaa Xaa Arg Xaa Xaa Xaa Lys Ile Xaa Xaa Lys Xaa Lys Lys

220 1 5 10 15

W--> 223 Xaa Gly Xaa Xaa Ile Lys Xaa Xaa Xaa Xaa Leu Val Pro

224 20 25

227 <210> SEQ ID NO: 3

228 <211> LENGTH: 29

229 <212> TYPE: PRT

230 <213> ORGANISM: Artificial

232 <220> FEATURE:

233 <223> OTHER INFORMATION: Synthetic antimicrobial peptide (Cat1)

235 <400> SEQUENCE: 3

237 Gly Leu Leu Arg Arg Leu Arg Lys Lys Ile Gly Lys Lys Leu Lys Lys

238 1 5 10 15

241 Ile Gly Gln Lys Ile Lys Pro Ile Arg Ile Leu Val Pro

242 20 25

245 <210> SEQ ID NO: 4

246 <211> LENGTH: 29

247 <212> TYPE: PRT

248 <213> ORGANISM: Artificial

250 <220> FEATURE:

251 <223> OTHER INFORMATION: Synthetic antimicrobial peptide

253 <400> SEQUENCE: 4

255 Gly Leu Leu Arg Arg Leu Arg Gly Lys Ile Gly Lys Lys Leu Lys Lys

## RAW SEQUENCE LISTING

DATE: 12/20/2005

PATENT APPLICATION: US/10/560,260

TIME: 10:20:14

Input Set : A:\01 10328.204-WO sequence listing.ST25.txt

Output Set: N:\CRF4\12202005\J560260.raw

```

256 1          5          10          15
259 Ile Gly Gln Lys Ile Lys Ala Ile Arg Lys Leu Val Pro
260          20          25
263 <210> SEQ ID NO: 5
264 <211> LENGTH: 29
265 <212> TYPE: PRT
266 <213> ORGANISM: Artificial
268 <220> FEATURE:
269 <223> OTHER INFORMATION: Synthetic antimicrobial peptide
271 <400> SEQUENCE: 5
273 Gly Leu Leu Arg Arg Phe Arg Lys Lys Ile Gly Gly Lys Leu Lys Lys
274 1          5          10          15
277 Tyr Gly Gln Ile Ile Lys His Leu Arg Ile Leu Val Pro
278          20          25
281 <210> SEQ ID NO: 6
282 <211> LENGTH: 29
283 <212> TYPE: PRT
284 <213> ORGANISM: Artificial
286 <220> FEATURE:
287 <223> OTHER INFORMATION: Synthetic antimicrobial peptide
289 <400> SEQUENCE: 6
291 Gly Leu Leu Arg Arg Leu Arg Arg Lys Ile Gly Gly Lys Leu Lys Lys
292 1          5          10          15
295 Phe Gly Gln Lys Ile Lys Pro Leu Arg Lys Leu Val Pro
296          20          25
299 <210> SEQ ID NO: 7
300 <211> LENGTH: 29
301 <212> TYPE: PRT
302 <213> ORGANISM: Artificial
304 <220> FEATURE:
305 <223> OTHER INFORMATION: Synthetic antimicrobial peptide
307 <400> SEQUENCE: 7
309 Gly Leu Leu Arg Arg Leu Arg Lys Lys Ile Gly Lys Lys Leu Lys Lys
310 1          5          10          15
313 Phe Gly Gln Lys Ile Lys His Ile Arg Ile Leu Val Pro
314          20          25
317 <210> SEQ ID NO: 8
318 <211> LENGTH: 29
319 <212> TYPE: PRT
320 <213> ORGANISM: Artificial
322 <220> FEATURE:
323 <223> OTHER INFORMATION: Synthetic antimicrobial peptide
325 <400> SEQUENCE: 8
327 Gly Leu Leu Lys Arg Leu Gly Arg Lys Ile Gly Lys Lys Leu Lys Lys
328 1          5          10          15
331 Phe Gly Gln Lys Ile Lys Ala Ile Arg Lys Leu Val Pro
332          20          25
335 <210> SEQ ID NO: 9
336 <211> LENGTH: 29

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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/560,260

DATE: 12/20/2005  
TIME: 10:20:15

Input Set : A:\01 10328.204-WO sequence listing.ST25.txt  
Output Set: N:\CRF4\12202005\J560260.raw

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220>

to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 2,3,4,5,6,7,8,11,12,14,15,17,18,19,20,23,24,25,26

Seq#:2; Xaa Pos. 2,3,4,6,7,8,11,12,14,17,19,20,23,24,25,26

Seq#:58; Xaa Pos. 2,3,4,6,7,8,11,12,14,15,17,18

**Invalid <213> Response:**

Use of "Artificial" only as "<213> Organism" response is incomplete,  
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27

Seq#:28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51

Seq#:52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75

## VERIFICATION SUMMARY

DATE: 12/20/2005

PATENT APPLICATION: US/10/560,260

TIME: 10:20:15

Input Set : A:\01 10328.204-WO sequence listing.ST25.txt

Output Set: N:\CRF4\12202005\J560260.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application No  
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:119 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0  
L:123 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:16  
L:219 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0  
L:223 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:16  
L:1288 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58 after pos.:0  
L:1292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58 after pos.:16